	Application No.	Applicant(s)	- (M
Notice of Allowability	10/657,668	 MAIER-LAXHUBER E	ET AL.
	Examiner	Art Unit	
	Filip Zec	3744	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applier or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	plication. If not included will be mailed in due c	d ourse. THIS
2. ☑ The allowed claim(s) is/are 1 and 3-14.	0,1 0, 2 1, 200 1 .		
 3. ☐ The drawings filed on <u>08 September 2003</u> are accepted by 	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Actified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the paper No./Mail Date DEPOSIT OF and/or INFORMATION about the deposition attached Examiner's comment regarding REQUIREMENT 	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. iitted. Note the attached EXAMINER es reason(s) why the oath or declara est be submitted. son's Patent Drawing Review (PTO s Amendment / Comment or in the Co	national stage application of the following in the front (not the following in the submitted. Not the submitted.	uirements OTICE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other Statement	(PTO-413), te ment/Comment	vance val AMINER

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Amdt. dated June 17, 2004

Reply to Office Action of May 17, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An adsorption cooling apparatus with an intermittently heated adsorbent container containing an adsorbent that exothermically adsorbs a working medium during an adsorption phase and with addition of heat again desorbs during a subsequent desorption phase at higher temperatures and with a condenser that leads condensed working medium through a connection line to an the evaporator which is in turn connected with the adsorbent through a working medium vapor line and which takes up heat from the medium to be cooled during the adsorption phase, wherein the condenser is disposed within eoupled to a buffer reservoir having a reservoir medium contained therein that buffers at least a part of the condensation heat of the working medium vapor and that can again dissipate the stored heat into the surroundings even during the adsorption phase.

- 2. (Currently Canceled)
- 3. (Original) An adsorption cooling apparatus according to Claim 1, wherein the evaporator is arranged in the upper region of the medium to be cooled and the medium that is being heated during the desorption phase does not mix with the cooler medium located below it because of its lower density.
- 4. (Original) An adsorption cooling apparatus according to Claim 1, further comprising a cold storing element arranged below the evaporator.
- 5. (Original) An adsorption cooling apparatus according to Claim 1, wherein during the desorption phase, the medium to be cooled is prevented from exchanging heat with the already cooled medium by means of a shutoff device.
- 6. (Original) An adsorption cooling apparatus according to Claim 1, wherein the desorption heat that is added during the desorption phase is input by a burner.
- 7. (Original) An adsorption cooling apparatus according to Claim 1, wherein the adsorbent contains zeolite and the working medium contains water.

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- 8. (Original) An adsorption cooling apparatus according to Claim 1, wherein a condensate is collected in a condensate buffer at a lower level, and is drawn into the higher level of the evaporator at the beginning of the adsorption phase.
- 9. (Currently Amended) An adsorption cooling apparatus with an intermittently heated adsorbent container containing an adsorbent that exothermically adsorbs a working medium during an adsorption phase and with addition of heat again desorbs during a subsequent desorption phase at higher temperatures and with a condenser that leads condensed working medium through a connection line to an evaporator which is in turn connected with the adsorbent through a working medium vapor line and which takes up heat from the medium to be cooled during the adsorption phase, wherein the condenser is coupled to a buffer reservoir that buffers at least a part of the condensation heat of the working medium vapor and that can again dissipate the stored heat into the surroundings even during the adsorption phase, and An adsorption cooling apparatus according to Claim 1, wherein the evaporator contains wetting agents which effect a homogeneous distribution of the liquid working medium inside the evaporator.
- 10. (Currently Amended) An adsorption cooling apparatus with an intermittently heated adsorbent container containing an adsorbent that exothermically adsorbs a working medium during an adsorption phase and with addition of heat again desorbs during a subsequent desorption phase at higher temperatures and with a condenser that leads condensed working medium through a connection line to an evaporator which is in turn connected with the adsorbent through a working medium vapor line and which takes up heat from the medium to be cooled during the adsorption phase, wherein the condenser is coupled to a buffer reservoir that buffers at least a part of the condensation heat of the working medium vapor and that can again dissipate the stored heat into the surroundings even during the adsorption phase, and An adsorption cooling apparatus according to Claim 1, wherein the working medium vapor line contains a regulation element which narrows the flow cross section when the evaporator temperatures are too low.
- 11. (Original) An adsorption cooling apparatus according to Claim 10, wherein the regulation element contains a bimetal element.

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- 12. (Original) An adsorption cooling apparatus according to Claim 1, further comprising a radiation screen arranged below the evaporator.
- apparatus with an intermittently heated adsorbent container containing an adsorbent that exothermically adsorbs a working medium during an adsorption phase, and that, with addition of heat, again desorbs during a subsequent desorption phase at higher temperatures, and with a connected condenser disposed within a buffer reservoir and that leads condensed working medium into an evaporator which is in turn connected with the adsorbent through a working medium vapor line, wherein the desorption phase has less than one-third the duration of the adsorption phase, and that the condensation heat is buffered during the desorption phase by a heat reservoir medium contained within the buffer reservoir, and that most of the buffered heat is again dissipated during the adsorption phase.
- 14. (Original) A method for the operation of an adsorption cooling apparatus according to Claim 13, wherein during the desorption phase, which is caused by a high heating power, a temperature gradient of more than 100 K between the heat uptake surface and the heat release surface is produced inside the adsorbent.